



SYLLABUS 2026-27



AGRASAIN BOYS' SCHOOL

[Affiliated to Council for the Indian School Certificate Examinations, New Delhi]

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AGRASAIN BOYS' SCHOOL

Affiliated to Council for the Indian School Certificate Examinations, New Delhi]
21/A, AGRASAIN STREET, LILUAH, HOWRAH-711204

SYLLABUS : 2026-2027

CLASS – X

❑ SUBJECT : ENGLISH LANGUAGE

BOOKS:

- 1. Pearls of English Language Class X (Black Pearl Publication)**
- 2. Writing Skills Class X (Indiannica Publication)**

Periodical

As per I.C.S.E 2027 syllabus.

Assessment 1

As per I.C.S.E 2027 syllabus.

Assessment 2

As per I.C.S.E 2027 syllabus.

Pre-board

As per I.C.S.E 2027 syllabus.

ENGLISH LANGUAGE PROJECT

Speaking skill and listening skill

(Topics to be provided by the respective teachers in the class)

❑ SUBJECT : ENGLISH LITERATURE

BOOKS:

- 1. TREASURE CHEST : I.C.S.E. A Collection of poems and short stories**
- 2. Workbook cum notes on Treasure Chest: I.C.S.E. Poems**
- 3. Workbook cum notes on Treasure Chest: I.C.S.E. short stories**
- 4. Julius Caesar Textbook**
- 5. Julius Caesar Workbook**

Periodical

A Collection of poems : Haunted Houses
The Glove and the Lions
When Great Trees Fall

A Collection of short stories : With the Photographer
The Elevator
The Girl Who Can

Julius Caesar : Act III (till pages done)

Assessment 1

A Collection of poems: The Glove and the Lions
When Great Trees Fall
A Considerable Speck

A Collection of short stories: The Elevator
The Girl Who Can
The Pedestrian

Julius Caesar: Act III, Act IV (till pages done)

Assessment 2

1. A Collection of poems : Haunted Houses
The Glove and the Lions
When Great Trees Fall
A Considerable Speck
The Power of Music
2. A Collection of short stories: With the Photographer
The Elevator
The Girl Who Can
The Pedestrian
The Last Lesson
3. Julius Caesar: Act III, Act IV, Act V (till pages done)

Pre-board

As per I.C.S.E 2027 Class X syllabus.

ENGLISH LITERATURE PROJECT :

Project topics for Class X (I.C.S.E. project)

Project 1

1. “The Glove and the Lions” by Leigh Hunt describes the dangerous game of love played in the royal court of the king and the consequences of going too far. — Elucidate. (350 words)
2. Explain the significance of the line from Act III Scene 1— “Et tu, Brute? Then fall Caesar!” (400 words)

Project 2

1. The story, “With the Photographer” by Stephen Leacock exposes the themes of appearance, humiliation, insecurity and self-respect. Discuss. (350 words)
2. Draw a character sketch of Marcus Brutus as a tragic hero in Shakespeare’s play, ‘Julius Caesar.’ (400 words)

Guidelines

- Write your project in file papers.

- Use only black and blue ink.
- Avoid green and red colour ink to write heading.
- Write each topic in different page.
- Draw borders on plain side of each page.
- Pictures to be pasted with captions.
- Project should be neat, tidy and legible.

Contents

Page 1- Name, class, section, Roll no., Subject (printout with school logo)
 Page 2- Acknowledgment
 Page 3- Index
 Page 4- Topic's name
 Page 5- Introduction
 Page 6- About the topic
 Page 7- Conclusion
 Page 8- Bibliography

❑ SUBJECT : MATHEMATICS

BOOKS: Understanding ICSE Mathematics Class X by M L Aggarwal APC

Periodical:

Ch-1 Goods and Services Tax (GST)
 Ch-2 Banking
 Ch-3 Shares and Dividends
 Ch-4 Linear Inequations
 Ch-8 Matrices
 Ch-9 Arithmetic and Geometric Progressions
 Ch-21 Measures of Central Tendency
 Ch-22 Probability

First Assessment:

Ch-10 Reflection
 Ch-11 Section Formula
 Ch-12 Equation of a Straight Line

Revision : Periodical Syllabus

Second Assessment:

Ch-5 Quadratic Equations in One Variable
 Ch-6 Ratio and Proportion
 Ch-7 Factorisation
 Ch-13 Similarity
 Ch-18 Trigonometrical Identities

Revision : Periodical + First Assessment Syllabus

Pre-Board:

Ch-14 Locus
 Ch-15 Circles
 Ch-16 Constructions

Ch-17 Mensuration
Ch-19 Trigonometrical Tables
Ch-20 Heights and Distances

Full Class-X ICSE 2027 Syllabus

Project

Topic-1 Survey of various types of bank accounts, rates of interest offered.

Topic-2 Planning a home budget.

❑ SUBJECT : SECOND LANGUAGE BENGALI

Periodical 1

ছোট গল্প : বামা, গন্ধটা খুব সন্দেহজনক।
কবিতা : আবার আসিব ফিরে, কুলিমজুর
চাঁদের পাহাড় : অধ্যায়- ৮-১০।
ব্যাকরণ ও নির্মিতি : সমগ্র পাঠ্যক্রম।

1st Assessment

ছোট গল্প : লোকটি, অসহযোগী, নাম।
কবিতা : খো খো, বঙ্গভূমির প্রতি, অমলকান্তি।
চাঁদের পাহাড় : অধ্যায় ১১-১৩
ব্যাকরণ ও নির্মিতি : সমগ্র পাঠ্যক্রম।

2nd Assessment

ছোট গল্প : লোকটি, অসহযোগী, নাম, বামা, গন্ধটা খুব সন্দেহজনক।
কবিতা : খো খো, বঙ্গভূমির প্রতি, কুলি মজুর, আবার আসিব ফিরে, অমলকান্তি।
চাঁদের পাহাড় : ৮-১৪।
ব্যাকরণ ও নির্মিতি : সমগ্র পাঠ্যক্রম

Pre-Board Examination

গল্প, কবিতা, চাঁদের পাহাড় ও ব্যাকরণ - নির্মিতি ICSE নির্ধারিত পাঠ্যক্রম।

Project

1. বিজ্ঞানে বাঙালী।
2. ঋত্বিক ঘটকের সার্থ শতবর্ষ ও বাংলা চলচ্চিত্রে তার অবদান।

□ SUBJECT – 2ND LANGUAGE [HINDI]

- पुस्तकें :- १) साहित्य सागर
२) साहित्य सागर - अभ्यास पुस्तिका
३) सरस हिन्दी व्याकरण

Periodical-1

साहित्य सागर :- संक्षिप्त कहानियाँ

- 1) बड़े घर की बेटी
- 2) संदेह

पद्य

- 1) सूर के पद
- 2) विनय के पद

व्याकरण

मुहावरे, विलोम, पर्यायवाची, भाववाचक संज्ञाएँ बनाना, विशेषण, वाक्यगत अशुद्धियों का शोधन, वर्तनी की सामान्य अशुद्धियाँ, वाक्य परिवर्तन, लिंग एवं वचन परिवर्तन

अपठित गद्यांश

पत्र लेखन

निबंध

1st Assessment Examination

साहित्यसागर :- संक्षिप्त कहानियाँ

- 1) भीड़ में खोया आदमी
- 2) भेड़ें और भेड़िए
- 3) दो कलाकार

पद्य

- 1) भिक्षुक
- 2) चलना हमारा काम
- 3) मातृ मंदिर की ओर

व्याकरण

(संपूर्ण आई सी एस ई पाठ्यक्रम)

2nd ASSESSMENT EXAMINATION

साहित्य सागर :- संक्षिप्त कहानियाँ

- 1) बड़े घर की बेटी
- 2) संदेह
- 3) भीड़ में खोया आदमी
- 4) भेड़ें और भेड़िए
- 5) दो कलाकार

पद्य

- 1) सूर के पद
- 2) विनय के पद
- 3) भिक्षुक
- 4) चलना हमारा काम है
- 5) मातृ मंदिर की ओर

व्याकरण

(संपूर्ण आई सी एस ई पाठ्यक्रम)

Pre-Board

साहित्य सागर :- संक्षिप्त कहानियाँ

- 1) बड़े घर की बेटी
- 2) संदेह
- 3) भीड़ में खोया आदमी
- 4) भेड़ें और भेड़िए
- 5) दो कलाकार

पद्य

- 1) सूर के पद
- 2) विनय के पद
- 3) भिक्षुक
- 4) चलना हमारा काम है
- 5) मातृ मंदिर की ओर

व्याकरण

(संपूर्ण आई सी एस ई पाठ्यक्रम)

निम्नलिखित विषयों पर 300-400 शब्दों में हिंदी में परियोजना तैयार कीजिए।

1. "बड़े घर की बेटी" कहानी पर सचित्र परियोजना तैयार कीजिए।
2. "पर उपदेश कुशल बहुतेरे" उक्ति को आधार बनाकर एक मौलिक कहानी लिखते हुए सचित्र परियोजना तैयार कीजिए।

❑ SUBJECT : PHYSICS

BOOK WRITTEN BY : R.P. GOYAL AND S.P. TRIPATHI

1. CONCISE PHYSICS	TEXT BOOK	SELINA
2. ICSE PHYSICS WORKBOOK	WORK BOOK	SELINA
3. NOVA ICSE PHYSICS LAB MANUAL – 10 PUBLICATIONS	LAB MANUAL	NOVA

PERIODICAL 1

1. Forces
2. Work, power and energy
3. Machines
4. Refraction of light at plane surfaces

ASSESSMENT 1

5. Refraction through lens
 6. Spectrum
- Chapters from Periodical 1 included

PRACTICAL:

Experiment 1:- To find the weight of the given metre scale

Experiment 2:- To find the weight of the given object using law of moments

ASSESSMENT 2

7. Sound
 8. Current electricity
 9. Household circuits
- Chapters 1 to 6 inclusive

PRACTICAL :

Experiment 3:-

To trace the course of different rays of light through a rectangular glass slab at different angles of incidence. Also measure the lateral displacement.

Experiment 4:- To verify that lateral displacement through a glass slab depends on angle of incidence.

PRE-BOARD

10. Electromagnetism
 11. Calorimetry
 12. Radioactivity
- Chapters 1 to 9 included

PRACTICAL:

Experiment 5:-

To trace the path of a ray of light through a prism and to show that $i_1 + i_2 = A + \delta$ and $A = r_1 + r_2$

Experiment 6 :-

To trace the course of a light ray incident normally ($i = 0^\circ$) on different types of prisms and also to measure the angle of deviation, δ for $A = 45^\circ, 60^\circ$ and 90°

❑ SUBJECT : CHEMISTRY

Book: Simplified ICSE Chemistry for class X, Dr. V.J.Dalal, Allied publishers

Book: ICSE Chemistry work book for class X, GBP

Practical: Nova ICSE Chemistry Lab Manual, Class X

PERIODICAL

- Periodic Table, Periodic Properties and Variation of Properties
 - Chemical Bonding
 - Acids, Bases and Salts
 - Analytical Chemistry
 - Electrolysis

PRACTICAL AS PER ICSE NORMS

ASSESSMENT I

- Mole Concept and Stoichiometry
- Revision: Chapters of Periodical Examination

PRACTICAL AS PER ICSE NORMS

ASSESSMENT II

- Metallurgy
- Study of Compounds A. Hydrogen Chloride
- Study of Compounds B. Ammonia
- Study of Compounds C. Nitric Acid
- Study of Compounds D. Sulphuric Acid
- Revision: Chapters of Periodical and Assessment I Examinations

PRACTICAL AS PER ICSE NORMS

PREBOARD

- Organic Chemistry
- Revision Chapters of Periodical, Assessment I and Assessment II Examinations

PRACTICAL AS PER ICSE NORMS

❑ SUBJECT : BIOLOGY

BOOK : ICSE BIOLOGY BY SRIJAN PUBLICATION

WORKBOOK : GBP

PRACTICAL MANUAL : NOVA

PERIODICAL EXAM

1. Structure of chromosomes, cell cycle and cell division.
2. Genetics- some basic fundamentals
3. Absorption by roots- the process involved
4. Transpiration
5. Photosynthesis
6. Chemical co- ordination in plants
7. The circulatory system
8. The excretory system

Practical : As per done in class

Workbook : As per done in class

1ST ASSESSMENT EXAM

9. The nervous system

Revision - Ch (1-8)

Practical : As per done in class

Workbook : As per done in class

2ND ASSESSMENT EXAM

10. Sense organs
11. The endocrine system

Revision : Ch (1-9)

Practical : As per done in class

Workbook : As per done in class

PRE-BOARD EXAM

12. The reproductive system
13. Human evolution
14. Population-the increasing numbers and rising problems.
15. Pollution- a rising environmental problem

Revision : Ch (1-11)

Practical : As per done in class

Workbook : As per done in class

❑ SUBJECT : HISTORY AND CIVICS

PRESCRIBED BOOK - ICSE (HISTORY & CIVICS) K.S. RANDHAWA / CANDID PUBLICATION

REFERENCE BOOK - TOTAL HISTORY & CIVICS - MORNING STAR

Follow [CISCE.ORG](https://www.cisce.org) Publications for ICSE 2027 Board Syllabus / Scope

PERIODICAL I (100 MARKS) (JUNE)

History (Modern Indian History)

Ch 1. The First War of Independence (1857)

Ch 2. Factors promoting Growth of Nationalism

History (Contemporary World)

1.The First World War

12. Rise of Dictatorships

Civics

1. The Union Legislature: Rajya Sabha and Lok Sabha

Compulsory Copy Evaluation/ Holidays Homework Evaluation to be done

FIRST ASSESSMENT (80+20 MARKS)(JULY)

History (Modern Indian History)

Ch 3. First phase of Indian Nationalist Movement (1885-1907)

Ch 4(a)Second Phase of Indian Nationalism (1905-1916)

History (Contemporary World)

Ch 13 The Second World War

Civics

Ch 2 The Union Executive -

a. President

b. Vice President

Including All chapters of Periodical 1 both History and Civics

ASSESSMENT 1 PROJECT : (CHARTS AND MODALS) (20 marks)

ANY ONE OF YOUR CHOICE

Charts- Causes of 1857

Control over Executive

Pictorial representation of UN Agencies

Role of UN Organs

Modal- Mangal Pandey and Enfield Rifle

Chauri Chaura Incident

Jalianwala Bagh

Quit India Movement

Clay Modals- Reformers(in syllabus only)

Assassination of Archduke Franchis Ferdinand

Bombing of Hiroshima/Nagasaki

Clay busts of Early Nationalists/ Assertive Nationalists

COPY EVALUATION

SECOND ASSESSMENT (80+20 MARKS) (SEPTEMBER)

History (Modern Indian History)

Ch 4(b). Second Phase of Indian National Movement (1905-1916)

Ch 5. The National Movement (1915-47)

Ch 6 The Quit India Movement

Ch 7 Forward Bloc and INA

History (Contemporary World)

Ch 4. The United Nations

Ch 5 Major Agencies of the United Nations

Ch 6. Non-Aligned Movement

Civics

Ch 3. The Union Executive(c)- Prime Minister and Council of Ministers

Ch 4 Union Judiciary- (a) The Supreme Court

INCLUDING PERIODICAL AND ASSESSMENT 1 SYLLABUS both History and Civics

Copy Evaluation/ Continuous Assessment

PREBOARDS (80+20) (December)

HISTORY

Ch 8 Independence and Partition of India

CIVICS

Ch 5 Union Judiciary-

(b) High Court

(c) Subordinate Courts

INCLUDING WHOLE BOOK

Entire Syllabus covered throughout the academic year

BOARD PROJECT

INTERNAL ASSESSMENT (Only ONE)

Discuss the relevance of **any one** of the following films to understand the history of 20th Century Europe:

Schindler's List,

The Boy in Striped Pyjamas,

Life is Beautiful,

The Sound of Music,

Gandhi (Richard Attenborough),

Netaji Subhas Chandra Bose - The Forgotten Hero (Shyam Benegal) or any other relevant book.

OR

Prepare a report on the contributions of any one of the following agencies of the United Nations – UNESCO / WHO / UNICEF

OR

Do you think that the concept of the Cold War is still visible in 21st century global geopolitics? Give reasons to support your answer

OR

Do you think the UN has justified the role for which it was established in 1945 considering the recent wars between Ukraine and Russia and Iran and Israel? Give reasons to support your answer.

OR

Do you think that in the changed global scenario, the Security Council should set more permanent members? Give reasons to support your answer.

OR

If you were given a choice to work for any one of the major agencies of the UN which one would you choose and why?

OR

Compare the relevance of NAM during the Cold War with its significance in today's multipolar world. How has its role evolved? Give your views.

OR

There are a few areas where the President of India can act at his/her discretion Thus proving that the President of India is not a rubber stamp at all. Give your views on this statement by giving examples from the past.

□ SUBJECT : GEOGRAPHY

BOOK – UNDERSTANDING ICSE GEOGRAPHY BY APC PUBLICATION.

PERIODICAL 1

1. Climate

Distribution of Temperature, Rainfall, winds in summer and winter and factors affecting the climate of the area. Monsoon and its mechanism. Seasons: March to May – Summer; June to September – Monsoon; October to November - Retreating Monsoon. December to February – winter.

2. Soil Resources

- Types of soil (alluvial, black, red and laterite) distribution, composition and characteristics such as colour, texture, minerals and crops associated.
- Soil Erosion – causes, prevention and conservation.

3. Waste Management

- Impact of waste accumulation - spoilage of landscape, pollution, health hazards, effect on terrestrial, aquatic (fresh water and marine) life.
- Need for waste management.
- Methods of safe disposal -segregation, dumping and composting.
- Need and methods for reducing, reusing and recycling waste

4. Geographical Survey Map

5. Map of India.

FIRST ASSESSMENT:

1. Natural Vegetation

- Importance of forests.
- Types of vegetation (tropical evergreen, tropical deciduous, tropical desert, littoral and mountain), distribution and correlation with their environment.
- Forest conservation.

2. Water Resources.

- Sources (Surface water and ground water).
- Need for conservation and conservation practices (Rain water harvesting and its importance).
- Irrigation: Importance and methods

3. Geographical Survey map

4. Map of India.

- **Revision - chapters of periodical.**

Second Assessment:

1. Mineral and Energy Resource

- Iron ore, Manganese, Copper, Bauxite – uses and their distribution.
- Conventional Sources: Coal, Petroleum, Natural gas (distribution, advantages and disadvantages).
- Hydel power (Bhakra Nangal Dam and Hirakud).
- Non-conventional Sources: Solar, wind, tidal, geo-thermal, nuclear and bio-gas (generation and advantages).

2. Agriculture

- Indian Agriculture – importance, problems and reforms.
- Types of farming in India: subsistence and commercial: shifting, intensive, extensive, plantation and mixed.
- Agricultural seasons (Rabi, kharif, zayad).
- Climatic conditions, soil requirements, methods of cultivation, processing and distribution of the following crops:
 - Rice, wheat, millets and pulses.
 - Sugarcane, oilseeds (groundnut, mustard and soya bean).
 - Cotton, jute, tea and coffee.

3. Geographical Survey Map

4. Map of India.

- **Revision - chapters of periodical, First Assessment**

PREBOARD EXAMINATION

1. Manufacturing Industries

Importance and classification

- Agro based Industry - Sugar, Textile (Cotton and Silk).
- Mineral based Industry – Iron & Steel (TISCO, Bhilai, Rourkela, and Vishakhapatnam) Petro Chemical and Electronics.

2. Transport

Importance and Modes – Roadways, Railways, Airways and Waterways –Advantages and disadvantages.

3. Geographical Survey Map

4. Map of India.

- **Revision of all chapter**

Full syllabus as per ICSE rules and norms

❑ SUBJECT : ECONOMIC APPLICATIONS

PEDIODICAL-1:

- Demand
- Supply
- Elasticity of demand and supply

1ST ASSESSMENT:

- Factors of production: Land and labour
- Factors of production: Capital and entrepreneur
- Forms of Market Structure

(Including all the topics of Periodical-1 Examination)

2ND ASSESSMENT:

- The role of State in Economic development
- Public Sector Enterprises and their Privatisation
(Including all the topics of Periodical-1 and 1st Assessment Examination)

PRE-BOARD :

- Money and Inflation
- Banking
(Including all the topics of Periodical-1, 1st Assessment and 2nd Assessment Examination)

PROJECT TOPICS:

1. Make a list of products for which you think demand is price inelastic and price elastic. Specify the reasons you may think relevant for your analysis.
2. Public Sector Enterprises.
3. Inflation: Types, effects and control of inflation.
4. Central bank and its functions.

☐ SUBJECT : COMPUTER APPLICATIONS

BOOK - UNDERSTANDING COMPUTER APPLICATIONS (with BlueJ)

PUBLISHER - AVICHAL PUBLISHING COMPANY

PERIODICAL I:

Ch 1: Revision of class IX syllabus

Ch 2: Library Classes

Ch 5: User - defined Methods

1ST ASSESSMENT:

Ch 1, 2, 5 (Revision)

Ch 3: Arrays (Single Dimensional)

Ch 6: Class as the basis of all Computation (Objects and Classes)

PRACTICAL:

Ch 1,2,3,5,6

2ND ASSESSMENT:

Ch 1,2,5,6 (Revision)

Ch 3: Arrays (Single and double dimensional)

Ch 4: String Handling

Ch 7: Constructors

Ch 8: Encapsulation and Inheritance

PRACTICAL:

Ch 1 to Ch 8

Pre-board Examination:

ENTIRE CLASS - X SYLLABUS

Everything mention in ICSE regulation and Syllabus book of 2027

☐ SUBJECT : COMMERCIAL STUDIES

BOOK - ICSE COMMERCIAL STUDIES (PART-II) CLASS- X
AUTHOR - CB GUPTA
PUBLISHER - GOYAL BROTHERS PRAKASHAN

PERIODICAL :

Chapter 1: Stakeholders in Commercial Organisations

Chapter 2: Marketing and Sales

Chapter 3: Advertising and Sales Promotion

Chapter 4: Consumer Protection

Chapter 5: E-Commerce

FIRST ASSESSMENT:

Chapter 6: Capital and Revenue Expenditure/Income

Chapter 7: Final Accounts of Sole Proprietorship

Revision : All the chapters from Periodical syllabus

SECOND ASSESSMENT:

Chapter 8: Fundamental Concepts of Cost

Chapter 9: Budgeting

Chapter 10: Sources of Finance

Chapter 11: Recruitment, Selection and Training

Chapter 15: Government initiatives in environment protection

Revision : All the chapters from Periodical and First Assessment Examination

PRE BOARD EXAMINATION:

Chapter 12: Industrial Relations, Trade Unions and Social Security

Chapter 13: Logistics and Insurance

Chapter 14: Banking

ENTIRE ICSE SYLLABUS OF COMMERCIAL STUDIES

❑ COMMERCIAL STUDIES (PROJECT TOPICS) :

Topic-1

From the daily newspaper which your family buys, select ten different advertisement: Compare each of them with the essentials of a good advertisement you have read in this chapter. Note down how many requirements are fulfilled by each advertisement. Is the advertisement which fulfil the maximum number of requirements the most popular/effective?

Topic-2

Meet ten responsible persons of your town and ask them whether they know the six rights of a consumer provided under the Consumer Protection Act. How many of them know about these rights? Prepare a chart depicting the consumer rights. Copies of chart may be put in your Library/Classroom and Community Hall of the town.

Topic-3

Visit the office of any commercial bank located near your school/residence. Meet in a group the manager of the bank branch. Enquire from him the functions and services which the bank offers to business firms. You may prepare a brief report on the basis of information collected from the manager.

❑ SUBJECT : PHYSICAL EDUCATION

BOOK 1: ICSE Physical Education, Class X, (DN Publication)

PERIODICAL 1:

Ch. 1 (Part A) – Human Growth and Development

Ch. 2 (Part A) – Physical Education

Ch. 3 (Part A) – Body Types.

Ch. 1 (Part B) – Cricket

Ch. 2 (Part B) – Football.

Project: Cricket & Football

1ST ASSESSMENT:

Ch. 4 (Part A) – Physical Fitness.

Ch. 5 (Part A) – Sports Training.

Ch. 1 (Part B) – Cricket

Ch. 2 (Part B) – Football.

Includes all the chapters of Periodical 1.

Project: Cricket & Football (To be submitted on the Practical Exam Day)

2ND ASSESSMENT:

Ch. 6 (Part A) – Safety in Sports.

Ch. 7 (Part A) – Health Education.

Ch. 8 (Part A) – Career in Physical Education.

Ch. 1 (Part B) – Cricket

Ch. 2 (Part B) – Football.

Includes all the chapters of Periodical 1 and 1ST Assessment.

Project: Cricket & Football (To be submitted on the Practical Exam Day)

PRE-BOARD:

Full syllabus of ICSE 2026-27

Revision of all the completed chapters

Project: Cricket & Football (Final submission of Project for Board Exam)

❑ SUBJECT : ROBOTICS & AI SYLLABUS

BOOK 1: I.C.S.E Robotics & Artificial Intelligence (GBP)

PERIODICAL 1:

Chapter 1 – New Age Robotic Systems

Chapter 2 – From Robots to Cobots

Chapter 9 – Decision making in Machine/Computers

Chapter 10 – Machine Intelligence and Cybersecurity in computing

Chapter 11 – Components of AI Project Framework

Revision – Revision of python from class IX.

ASSESSMENT 1:

Chapter 3 – Introduction to Gears

Chapter 4 – Sensors in Robotics

Chapter 5 – Actuators in Robotics

Chapter 12 – Modules and Packages

Revision – All the chapters of Periodical 1.

Practical – chapter 12

ASSESSMENT 2:

Chapter 6 – Controller for a Robotic System

Chapter 7 – Visualization, Design and Creation of Components

Chapter 8 – Integrating Robots as a System

Chapter 13 – Lists and Tuples in Python

Chapter 14 – Strings in Python

Revision – chapter – 12, 13, 14.

Practical – Python programs.

PRE BOARD :

Chapter 1 to Chapter 14.

❑ SUBJECT : ENVIRONMENTAL APPLICATIONS

BOOK : Environmental Applications – ICSE, Part – II (Class-X) by Huma Syed

WORKBOOK : EVA, Part – II (Class – X), workbook and question's bank by Huma Syed

PERIODICAL 1

Chapter 1: Caring for our soil

Chapter 2: Fuel wood crisis

Chapter 3: Waste generation and treatment

Related chapters from the workbook.

ASSESSMENT-I

Chapter 4: Caring for our air

Chapter 5: Legislation as a means to reduce air pollution

Revision: Chapter 1,2 ,3

Related chapters from the workbook.

Project: As per done in the class

ASSESSMENT-II

Chapter 6: Caring for our water

Chapter 7: Resource use

Chapter 8: Evolving sustainable paradigm

Revision: Chapter 1,2,3,4,5

Related chapters from the workbook.

Project: As per done in the class

PREBOARD EXAMINATION

Chapter 9: Eco-friendly Technologies

Chapter 10: Initiatives I can take

Revision: Chapter 1,2,3,4, 5,6, 7,8

Related chapters from the workbook.

Project: As per done in the class

❑ SUBJECT : Yoga Application (Group III)

Periodical I

- Endocrine System
- Personal hygiene through yoga
- Yoga Sutra: 1.2 & 1.14
- Sages of India:
 1. Narshi Mehta
 2. Sri Aurobindo
 3. Swami Vivekananda
- The yoga sutras of Patanjali
 - 1) Samadhi Pada

2) Sadhana Pada

3) Vibhuti Pada

4) Kaivalya Pada

- Contemporary Philosophies
- Practical

1st Assessment

- Excretory system
- The sensory organs
- Orthodox philosophies
- Heterodox Philosophies
- Yoga Sutra: 1.33 & 2.33
- Sages of India:
 1. Ved Vyasa
 2. Yognavalkya
- Practical
- Periodical I Chapters

2nd Assessment

- Sages of India
 - 1) Ramana Maharishi
- Sutras: 2.28
- Circulatory system
- Nervous System
- Periodical I and 1st Assessment Chapters
- Practical

Preboard

- All Chapters

▣ SUBJECT : SUPW

Half yearly

Subsidiary service

1. Toy making.
2. Pottery work.
3. Electrical work.
4. Dress designing.
5. Jute work.

Annual

Main craft service

6. First aid box.
7. Waste paper basket.
8. Fire painting.

□ SUBJECT : P.T.

HALF YEARLY

1. March Past.
2. Jogging & General Warming-up
3. Cardio Exercises:
 - a) Sprinting
 - b) Distance Running
 - c) Jumping Jack
 - d) Box Jump
4. Fitness Training:
 - a) Push-ups
 - b) Jump Squats
 - c) Bend knee sit-ups
 - d) Mountain Climbers
 - e) Plank Jacks
 - f) Sit & Reach
5. Indoor Games

ANNUAL

1. Tug-O-War
2. Team sports:
 - a) Soccer
 - b) Basketball
 - c) Handball
 - d) Kho-Kho
 - e) Kabaddi

